

A search of large amplitude waves in slow shock in the distant tail and an examination of wave turbulence in the plasma sheet boundary layer

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Two fluid simulations predict that switch-off slow shocks should have large amplitude left-hand wave trains downstream of the shock. recent simulations show that this feature depends on specific plasma parameters, such as Mach number and ratio of electron-to-ion temperature. In this study we carefully examine all distant tail crossings using ISEE-3 field and plasma data. We seek large amplitude rotational waves and compare to shock parameters. We also investigate right-hand waves associated with ion beams in the plasma sheet boundary layer. We examine the role of those back-streaming ions from slow shocks in wave generation. Wave mode cascade and parametric decay in these regions also will be studied.

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